ವಿಷಯ ಸಂಖ್ಯೆಯಲ್ಲಿ ಪುಟದ ಸಂಖ್ಯೆ .....

Roads & Development of Parks & Building ... 01,02,03 ಕಡತದ ಸಂಖ್ಯೆ .....

ಕಂಡಿಕೆ ಸಂಖ್ಯೆ	Nos of Yelahanka Div. ಟಪ್ಪಣಿಗಳು ಮತ್ತು ಆಜ್ಞೆಗಳು

ಮಂಡಿಸಿದೆ.

ವಿಷಯ:– Improvements of roads, Development of parks and construction of building in ward no:01,02, 03 and 04 of Yelahanka Division under 2021-22 District Minister Grants (Package-15).

*****

1) ಮೇಲ್ಕಂಡ ವಿಷಯಕ್ಕೆ ಸಂಬಂಧಿಸಿದಂತೆ, ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ, ವಾರ್ಡ್ ನಂ–04, ಯಲಹಂಕ ಉಪನಗರ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ Improvements of roads, Development of parks and construction of building in ward no:01,02, 03 and 04 of Yelahanka Division under 2021-22 District Minister Grants (Package-15) ಕಾಮಗಾರಿಯನ್ನು ನಿರ್ವಹಿಸಲು ಯಲಹಂಕ ವಿಧಾನಸಭಾ ಕ್ಷೇತ್ರದ ಮಾನ್ಯ ಶಾಸಕರು ಮನವಿಯನ್ನು ಸಲ್ಲಿಸಿರುತ್ತಾರೆ. ಆದುದರಿಂದ ಯಲಹಂಕ ವಿಧಾನಸಭಾ ಕ್ಷೇತ್ರದ ಮಾನ್ಯ ಶಾಸಕರು ಸದರಿ ಕಾಮಗಾರಿಯನ್ನು ESCROW ಅನುದಾನದಡಿಯಲ್ಲಿ ಸೇರಿಸಿ ಸಾರ್ವಜನಿಕರಿಗೆ ಅನುಕೂಲ ಮಾಡಿಕೊಡುವಂತೆ ಶಿಫಾರಸಿರುತ್ತಾರೆ.

2) ಅದರಂತೆ, ಸ್ಥಳ ಪರಿವೀಕ್ಷಣೆ ಮಾಡಿ ಈ ಮೇಲ್ಕಂಡ ಕಾಮಗಾರಿಯನ್ನು 2020–21ನೇ ಸಾಲಿನ ESCROW ಅನುದಾನದಡಿಯಲ್ಲಿ ರೂ. 130.00 ಲಕ್ಷಗಳಿಗೆ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ C.S.R of 2018-2019, PWD Electrical 2019-20, PRED 2019-20, SE-RDED approved Rate and issued Rates ಸಲ್ಲಿ ಮಂಜೂರಾಗಿರುವ ದರಪಟ್ಟಿಯಂತೆ ತಯಾರಿಸಲಾಗಿದೆ. ಸದರಿ ಅಂದಾಜು ಪಟ್ಟಿಯಲ್ಲಿ ಈ ಕೆಳಕಂಡ ಅಂಶಗಳು ಒಳಗೊಂಡಿರುತ್ತದೆ.

3)
1. ಶಿಥಿಲವಾದ ಕಟ್ಟಡವನ್ನು ತೆರವುಗೊಳಿಸುವುದು.
2. ತೆರವುಗೊಳಿಸಿದ ಕಟ್ಟಡದ ಸಾಮಾಗ್ರಿಗಳನ್ನು ಹೊರಸಾಗಿಸುವುದು.
3. ಅಡಿಪಾಯಕ್ಕಾಗಿ ಮಣ್ಣಿನ ಅಗೆತ
4. ಸಿ.ಸಿ.13:6 ನ್ನು ಅಳವಡಿಸುವುದು.
5. ಸಿ.ಸಿ.1:4:8 ನ್ನು ಅಳವಡಿಸುವುದು.
6. ಸಿ.ಸಿ.ಎಂ.20 ಓ.ಪಿ.ಸಿ.ಯನ್ನು ಅಳವಡಿಸುವುದು.
7. ಸಿ.ಸಿ.1:2:4 ನ್ನು ಅಳವಡಿಸುವುದು.
8. ಪೈಯಿಂಟಿಂಗ್‌ನ್ನು ಬಳಿಯುವುದು
9. ಕಟ್ಟಡಕ್ಕೆ ವಿದ್ಯುತ್ ಸಂಪರ್ಕವನ್ನು ನೀಡುವುದು ಇತ್ಯಾದಿ...

4) ಮೇಲ್ಕಂಡ ಎಲ್ಲಾ ಅಂಶಗಳು ಸದರಿ ಕಾಮಗಾರಿಗೆ ಬಹಳ ಅವಶ್ಯಕವಾಗಿರುತ್ತದೆ. ಆದ್ದರಿಂದ ಇವುಗಳನ್ನು ಅಳವಡಿಸಿ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ತಯಾರಿಸಲಾಗಿದೆ. ಈ ಕಾಮಗಾರಿಗೆ 2020–21ನೇ ಸಾಲಿನ ~~ESCROW~~ Development ಅನುದಾನದಡಿಯಲ್ಲಿ ರಂತೆ ಕಾಮಗಾರಿಯ ಕೆಲಸವನ್ನು ತುರ್ತಾಗಿ ತೆಗೆದುಕೊಳ್ಳಲು ಸಂಕೇತ:–––––––––– ಬೇಕಾಗಿರುವುದರಿಂದ ಆಡಳಿತಾತ್ಮಕ ಹಾಗೂ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ಕೋರಿ ಕಡತವನ್ನು ತಮ್ಮ ಮುಂದಿನ ಆದೇಶಕ್ಕೆ ಮಂಡಿಸಿದೆ.

ಸ.ಅ (ವಾರ್ಡ್–ನಂ:04)

ಸ.ಕಾ.ಅ (ಯ.ಉ.ವಿ)

ಪು.ತಿ.ಸೋ

ಪು.ತಿ.ಸೋ

ಕಂಡಿಕೆ ಸಂಖ್ಯೆ

ಪುಟದ ಸಂಖ್ಯೆ -03-

ಕಡತದ ಸಂಖ್ಯೆ

ಟಪ್ಪಣಿಗಳು ಮತ್ತು ಆಜ್ಞೆಗಳು

(3) ಕಿ.ಮು(ಯು.ಎ)

ಕಂಡಿಕೆ (1) ರಿಂದ (4)ರಲ್ಲಿ ವಿವರಿಸಿರುವಂತೆ, ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆಯ ಯಲಹಂಕ ವಲಯ, ಯಲಹಂಕ ವಿಧಾನಸಭಾ ಕ್ಷೇತ್ರಕ್ಕೆ ಒಳಪಡುವ ವಾರ್ಡ್‌ಸಂಖ್ಯೆ:01,02, 03 ಮತ್ತು 04ರ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ ಮೂಲಭೂತ ಸೌಕಾರ್ಯಗಳನ್ನು ಒದಗಿಸಲು 2021-22ನೇ ಸಾಲಿನ ಬೆಂಗಳೂರು ಜಿಲ್ಲಾ ಉಸ್ತುವಾರಿ ಸಚಿವರ ವಿವೇಚನೆದಡಿ ಮಂಜೂರಾಗಿರುವ "Improvements of roads, development of Parks and Construction of Buildings in ward no 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package No-15)"ಎಂಬ ಅಭಿವೃದ್ಧಿ ಪಡಿಸುವ ಕಾಮಗಾರಿಯನ್ನು ಕೈಗೊಳ್ಳಲು 2018-19ನೇ ಸಾಲಿನ ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆ ಎಸ್.ಆರ್ ದರಪಟ್ಟಿ, Issue Rate Dated:02-11-2021, Data Rates, PRED, BWSSB an KPWD Electrical SR for Year 2019-20 ಮತ್ತು ಪರಿಷ್ಕೃತ ದರಪಟ್ಟಿಯನ್ನು ಅನುಸರಿಸಿ, ರೂ.970.00 ಲಕ್ಷಗಳಿಗೆ ಅಂದಾಜುಪಟ್ಟಿಯನ್ನು ತಯಾರಿಸಲಾಗಿರುತ್ತದೆ. ಆದ್ದರಿಂದ ಸದರಿ ಕಾಮಗಾರಿಯನ್ನು ಕೂಡಲೇ ಅನುಷ್ಠಾನಗೊಳಿಸಬೇಕಾಗಿರುವುದರಿಂದ ಟೆಂಡರ್ ಆಹ್ವಾನಿಸಲು ಸಕ್ಷಮ ಪ್ರಾಧಿಕಾರದಿಂದ ಆಡಳಿತಾತ್ಮಕ ಅನುಮೋದನೆಯನ್ನು ನಿರೀಕ್ಷಿಸಿ, ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ಹಾಗೂ ಡಿ.ಟಿ.ಎಸ್. ಅನುಮೋದಿಸಲು ಕೋರಿ ಕಡವನ್ನು ತಮ್ಮ ಮುಂದಿನ ಆದೇಶಕ್ಕಾಗಿ ಸಲ್ಲಿಸಿದೆ.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ವಿಭಾಗ

6) ಮುಖ್ಯ ಅಭಿಯಂತರರು (ಯಲಹಂಕ ವಲಯ)

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು ಯಲಹಂಕ ವಿಭಾಗರವರ ವರದಿಯನ್ನು ತಮ್ಮ ಅವಗಾಹನೆಗೆ ತರುತ್ತಾ, 2021-22ನೇ ಸಾಲಿನ ಜಿಲ್ಲಾಉಸ್ತುವಾರಿ ಸಚಿವರ ಅನುದಾನದಡಿ ಯಲಹಂಕ ವಿಧಾನ ಸಭಾಕ್ಷೇತ್ರಕ್ಕೆ ರೂ12.00ಕೋಟಿಗಳ ಅನುದಾನ ಮಂಜೂರಾಗಿದ್ದು ಸದರಿ ಅನುದಾನದಲ್ಲಿ ವಾರ್ಡ್ ಸಂಖ್ಯೆ:01,02,03, ಮತ್ತು 04ರಲ್ಲಿ Improvements of roads development of Parks and construction minister grants (package no-15) ಕಾಮಗಾರಿಗೆ ರೂ.970.00ಲಕ್ಷಗಳಿಗೆ ಬೆಂಗಳೂರು ವೃತ್ತದ ಲೋಕೋಪಯೋಗಿ ಇಲಾಖೆಯ ದರಪಟ್ಟಿ 2018-19ರಂತೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ಹಾಗೂ ಡಿಟಿಎಸ್ ಅನುಮೋದನೆಗಾಗಿ ಸಲ್ಲಿಸಿರುತ್ತಾರೆ.

ಮಾನ್ಯ ಮುಖ್ಯ ಆಯುಕ್ತರವರ ಕಛೇರಿ ಆದೇಶ ಸಂಖ್ಯೆ:ಮುಆ/ಪಿ.ಆರ್/93/2021-22, ದಿನಾಂಕ:06-07-2021ರ ಆದೇಶದಲ್ಲಿ ಕಾಮಗಾರಿಗಳಿಗೆ ಜಾಬ್ ಸಂಖ್ಯೆ ನೀಡುವ ವ್ಯವಸ್ಥೆಯನ್ನು ಬಿಬಿಎಂಪಿ ಅನುದಾನಗಳಿಗೆ ಆಯಾ ವಲಯ ಮುಖ್ಯ ಅಭಿಯಂತರರ ಕಛೇರಿಯಲ್ಲಿ ಹಾಗೂ ಸರ್ಕಾರದ ಅನುದಾನಗಳಿಗೆ ಮುಖ್ಯ ಲೆಕ್ಕಾಧಿಕಾರಿಗಳ ಕಛೇರಿಯಲ್ಲಿ ಅನುಮೋದಿತ ಕ್ರಿಯಾಯೋಜನೆಯಂತೆ ಕಾಮಗಾರಿಗಳಿಗೆ ಅಂದಾಜು ಪಟ್ಟಿ ತಯಾರಿಸಿ ಕಾಮಗಾರಿ ನಿರ್ವಹಣೆ ಪೂರ್ಣ ಛಾಯಾಚಿತ್ರಗಳೊಂದಿಗೆ ಆನ್ವಯವಾಗುವ ನಿರ್ವಹಣೆ ಕಾಮಗಾರಿಗಳಿಗೆ ರಸ್ತೆ ಇತಿಹಾಸ, ಆಡಳಿತಾತ್ಮಕ ಅನುಮೋಸದೆ ಮತ್ತು ತಾಂತ್ರಿಕ ಅನುಮೋದನೆ ಪಡೆದು ಟೆಂಡರ್ ಪ್ರಕ್ರಿಯೆಗಳನ್ನು ಪೂರೈಸಿ ಟೆಂಡರ್ ಅಂತಿಮಗೊಳಿಸಿ ಗುತ್ತಿಗೆದಾರರಿಗೆ ಕಾರ್ಯಾದೇಶ ನೀಡುವ ಮೊದಲು ಜಾಬ್ ಸಂಖ್ಯೆ ಪಡೆಯಲು ಸಂಬಂಧಪಟ್ಟ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರಿಗೆ ಸೂಚಿಸಲಾಗಿರುತ್ತದೆ.

ಮುಂದುವರೆದು, ಮಾನ್ಯ ಆಯುಕ್ತರವರ ಆದೇಶ ಸಂಖ್ಯೆ: ಬಿ12(1)ಪಿಆರ್/394/2020-21, ದಿನಾಂಕ:04-02-2021ರಲ್ಲಿ ನೀಡಿರುವ ಅಧಿಕಾರದನ್ವಯ ಸದರಿ ಕಾಮಗಾರಿಗೆ ಆಡಳಿತಾತ್ಮಕ ನೀಡುವ ಅಧಿಕಾರವು ಪಾಲಿಕೆಯ ಸಭೆಗೆ ಒಳಪಟ್ಟಿದ್ದು, ಘಟನೋತ್ತರ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿಯನ್ನು ನಿರೀಕ್ಷಿಸಿ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ಹಾಗೂ ಡಿಟಿಎಸ್ ಅನುಮೋದನೆ ನೀಡಲು ಮೇಮೋ ತಯಾರಿಸಿ ತಮ್ಮ ಮುಂದಿನ ಆದೇಶಕ್ಕಾಗಿ ಸಲ್ಲಿಸಿದೆ.

7) ಮು.ಲ(ಯು.ಎ)

ಮಂಡಿಸಿದೆ.

ವಿಷಯ:- Improvement in ward no 0 Minister Gr ಅನುಮೋ

ಉಲ್ಲೇಖ:
1. ಕಾಮ date

11)

CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 17.03.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		February - 2022
DATE OF TESTING		15.03.2022 to 17.03.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	330 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

AE-1 AE-2 A.E.E

Note:

⇒ The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒ The results indicated above are based on the tests carried out on the samples collected at the site.

⇒ Any Query regarding the report must be reported within 30days from the date of testing.

For CIVIL-SHINE ENGINEERING CONSULTANTS

Authorsied Signatory

31, 4th Cross Behind Sahana School, Veerabhadreshwara Nagar, Herohalli, Vishwaneedam Post, Bengaluru - 560091. Email : civilshine.engg@gmail.com

Ph : 8123256061, GSTIN : 29K5VPS5133D1ZR

CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date : 17.03.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of Work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Date of Testing : 17.03.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	84	8.40	8.40	91.6	90-100
2.36	125	12.50	20.90	79.1	75-100
1.18	182	18.20	39.10	60.9	55-90
600 Micron	155	15.50	54.60	45.4	35-59
300 Micron	256	25.60	80.20	19.8	8-30
150 Micron	135	13.50	93.70	6.3	0-10

Note:

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3. Any Query regarding the report must be reported within 30days from the date of testing.

For CIVIL-SHINE ENGINEERING CONSULTANTS

Authorsied Signatory

31, 4th Cross Behind Sahana School, Veerabhadreshwara Nagar, Herohalli, Vishwaneedam Post, Bengaluru - 560091. Email : civilshine.engg@gmail.com

Ph : 8123256061, GSTIN :

CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date : 17.03.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of Work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Date of Testing : 17.03.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	182	3.6	3.6	96.4	95-100
10	2430	48.6	52.2	47.8	25-55
4.75	1965	39.3	91.5	8.5	0-10

AE-1 AE-2 A.E.E

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30days from the date of testing.

For CIVIL-SHINE ENGINEERING CONSULTANTS

Authorsied Signatory

31, 4th Cross Behind Sahana School, Veerabhadreshwara Nagar, Herohalli, Vishwaneedam Post, Bengaluru - 560091. Email : civilshine.engg@gmail.com
Ph : 8123256061, GSTIN : 29KFVPS5132D1ZR

CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date : 17.03.2022

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of Work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Date of Testing : 17.03.2022

Material : Sand - Plastering Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	14	1.40	1.40	98.6	95-100
2.36	12	1.20	2.60	97.4	95-100
1.18	38	3.80	6.40	93.6	90-100
600 Micron	76	7.60	14.00	86.0	80-100
300 Micron	265	26.50	40.50	59.5	20-65
150 Micron	510	51.00	91.50	8.5	0-15

AE-1
AE-2
A.E.E

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AE

For CIVIL-SHINE ENGINEERING CONSULTANTS

Authorsied Signatory

31, 4th Cross Behind Sahana School, Veerabhadreshwara Nagar, Herohalli, Vishwaneedam Post, Bengaluru - 560091. Email : civilshine.engg@gmail.com
Ph : 8123256061, GSTIN : 29KFVPS5132D1ZR

CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date : 17.03.2022

TEST REPORT ON CEMENT CONCRETE BLOCKS

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the Work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Date of Testing : 17.03.2022

Size of Blocks : 400mm x 150mm x 200mm

Cross Sectional Area : 60000 mm^2

Technical Reference : IS: 2185 (Part 1) - 2005

No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (N)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
AE-1	Block 1	26.3	312.2	5.20	2191.67	Minimum required Compressive Strength of Individual Units 5.00N/mm^2
2	Block 2	24.5	319.3	5.32	2041.67	
A.E.E 4	Block 3	25.8	316.2	5.27	2150.00	
	Block 4	25.2	314.5	5.24	2100.00	

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(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 05.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Location : APTS Primises

Sample ID : Cement Concrete for Copping

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

AE AE-2 A.E.E

Sl.No	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.03.2022	05.04.2022	8.162	284.5	12.64
2	29.03.2022	05.04.2022	8.138	279.6	12.43
3	29.03.2022	05.04.2022	8.146	262.3	11.66

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AE

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/ Authorsied Signatory

31, 4th Cross Behind Sahana School, Veerabhadreshwara Nagar, Herohalli, Vishwaneedam Post, Bengaluru - 560091. Email : civilshine.engg@gmail.com
Ph : 8123256061, GSTIN : 29KFVPS5132D1ZR

CIVIL-SHINE ENGINEERING CONSULTANTS

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(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 26.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	: **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: APTS Primises
Sample ID	: Cement Concrete for Copping
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

AE-1 AE-2 A.E.E

Sl.No	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.03.2022	26.04.2022	8.168	389.6	17.32
2	29.03.2022	26.04.2022	8.172	368.2	16.36
3	29.03.2022	26.04.2022	8.156	376.5	16.73

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 26.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	**: Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	: Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Location	: APTS Primises
Sample ID	: Cement Concrete for Copping
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

AE-1
AE-2

Sl.No. / A.E.E	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.03.2022	26.04.2022	8.145	378.9	16.84
2	29.03.2022	26.04.2022	8.162	395.6	17.58
3	29.03.2022	26.04.2022	8.138	390.1	17.34

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 05.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Location : APTS Primises

Sample ID : Cement Concrete for Copping

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

AE1
AB-2
A.E.E

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	29.03.2022	05.04.2022	8.177	285.6	12.69
2	29.03.2022	05.04.2022	8.184	279.6	12.43
3	29.03.2022	05.04.2022	8.162	262.8	11.68

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CIVIL-SHINE ENGINEERING CONSULTANTS

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 28.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Location : APTS Primises

Sample ID : Cement Concrete for Copping

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

AE-1
AE-2
A.E.E

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.03.2022	28.03.2022	8.166	386.3	17.17
2	31.03.2022	28.03.2022	8.184	374.9	16.66
3	31.03.2022	28.03.2022	8.159	369.2	16.41

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 09.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Location : APTS Primises

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

A&-1 A&-2

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1 A.E.E	02.04.2022	09.04.2022	8.179	275.8	12.26
2	02.04.2022	09.04.2022	8.184	269.3	11.97
3	02.04.2022	09.04.2022	8.165	281.4	12.51

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 09.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Location : APTS Primises

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

AE-1 AE-2 A.E.E

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.04.2022	09.04.2022	8.195	278.6	12.38
2	02.04.2022	09.04.2022	8.165	295.6	13.14
3	02.04.2022	09.04.2022	8.145	282.4	12.55

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 30.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Location : APTS Primises

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

AE-1 AE-2 A.E.E

Sl.No	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.04.2022	30.04.2022	8.184	379.6	16.87
2	02.04.2022	30.04.2022	8.169	386.9	17.20
3	02.04.2022	30.04.2022	8.152	362.5	16.11

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AE-1

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31, 4th Cross Behind Sahana School, Veerabhadreshwara Nagar, Herohalli, Vishwaneedam Post, Bengaluru - 560091. Email : civilshine.engg@gmail.com
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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 09.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Location : APTS Primises

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

AE-1
AE-2
A.E.E

Sl No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.04.2022	09.04.2022	8.168	289.6	12.87
2	02.04.2022	09.04.2022	8.154	265.2	11.79
3	02.04.2022	09.04.2022	8.118	276.3	12.28

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For CIVIL-SHINE ENGINEERING CONSULTANTS

Authorsied Signatory

31, 4th Cross Behind Sahana School, Veerabhadreshwara Nagar, Herohalli, Vishwaneedam Post, Bengaluru - 560091. Email : civilshine.engg@gmail.com
Ph : 8123256061, GSTIN : 29KFVPS5132D1ZR

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(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 07.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : N Sitharam Circle Road

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

AE-1 AE-2 A.E.E

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.03.2022	07.03.2022	8.174	515.2	22.90
2	31.03.2022	07.03.2022	8.156	526.3	23.39
3	31.03.2022	07.03.2022	8.162	498.6	22.16

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AE-1

For CIVIL-SHINE ENGINEERING CONSULTANTS

Prajwal

Authorsied Signatory

31, 4th Cross Behind Sahana School, Veerabhadreshwara Nagar, Herohalli, Vishwaneedam Post, Bengaluru - 560091. Email : civilshine.engg@gmail.com
Ph : 8123256061, GSTIN : 29KFVPS5132D1ZR

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 07.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : N Sitharam Circle Road

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

AE-1
AE-2
A.E.E

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.03.2022	07.03.2022	8.184	500.2	22.23
2	31.03.2022	07.03.2022	8.169	478.9	21.28
3	31.03.2022	07.03.2022	8.146	496.3	22.06

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 07.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : N Sitharam Circle Road

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

AE-1 AE-2 A.E.E

Sl.No	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.03.2022	07.03.2022	8.184	515.2	22.90
2	31.03.2022	07.03.2022	8.169	529.3	23.52
3	31.03.2022	07.03.2022	8.164	500.9	22.26

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For CIVIL-SHINE ENGINEERING CONSULTANTS

Authorsied Signatory

31, 4th Cross Behind Sahana School, Veerabhadreshwara Nagar, Herohalli, Vishwaneedam Post, Bengaluru - 560091. Email : civilshine.engg@gmail.com
Ph : 8123256061, GSTIN : 29KFVPS5132D1ZR

CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 28.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : N Sitharam Circle Road

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

AE1 AE2 A.E.E

Sl.No	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.03.2022	28.03.2022	8.148	708.2	31.48
2	31.03.2022	28.03.2022	8.189	716.5	31.84
3	31.03.2022	28.03.2022	8.168	724.8	32.21

Note:

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 28.03.2022

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Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : N Sitharam Circle Road

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

AE-1 AE-2 A.E.E

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.03.2022	28.03.2022	8.198	726.3	32.28
2	31.03.2022	28.03.2022	8.184	718.2	31.92
3	31.03.2022	28.03.2022	8.165	708.9	31.51

Note:

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For CIVIL-SHINE ENGINEERING CONSULTANTS

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CIVIL-SHINE ENGINEERING CONSULTANTS

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 08.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : APTS Premises

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No AE-1 AE-2	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.04.2022	08.04.2022	8.189	505.2	22.45
2	01.04.2022	08.04.2022	8.168	516.9	22.97
3	01.04.2022	08.04.2022	8.172	488.9	21.73

A.E.E

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : APTS Premises

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No. AB-1 AB-2 A.E.E	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.04.2022	08.04.2022	8.154	508.2	22.59
2	01.04.2022	08.04.2022	8.136	519.6	23.09
3	01.04.2022	08.04.2022	8.184	486.9	21.64

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 29.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : APTS Premises

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

AE-1
AE-2
A.E.E

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.04.2022	29.04.2022	8.198	718.2	31.92
2	01.04.2022	29.04.2022	8.184	736.2	32.72
3	01.04.2022	29.04.2022	8.156	709.4	31.53

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Cross Road 1 in Kondappa Layout

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No. AE-1 AE-2 A.E.E	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.04.2022	08.04.2022	8.184	501.2	22.28
2	01.04.2022	08.04.2022	8.149	519.6	23.09
3	01.04.2022	08.04.2022	8.162	488.9	21.73

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Sample ID : Cross Road 1 in Kondappa Layout

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.04.2022	08.04.2022	8.184	505.2	22.45
2	01.04.2022	08.04.2022	8.165	516.9	22.97
3	01.04.2022	08.04.2022	8.154	488.9	21.73

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Sample ID : Cross Road 1 in Kondappa Layout

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No. AE-1 AE-2 A.E.E	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.04.2022	08.04.2022	8.168	505.2	22.45
2	01.04.2022	08.04.2022	8.184	516.3	22.95
3	01.04.2022	08.04.2022	8.176	489.6	21.76

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Sample ID : Cross Road 1 in Kondappa Layout

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	AE-1 AE-2 A.E.E Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.04.2022	08.04.2022	8.168	505.2	22.45
2	01.04.2022	08.04.2022	8.184	516.3	22.95
3	01.04.2022	08.04.2022	8.176	489.6	21.76

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Sample ID : Cross Road 1 in Kondappa Layout

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No. AE-1 AE-2 A.E.E	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	01.04.2022	08.04.2022	8.132	500.9	22.26
2	01.04.2022	08.04.2022	8.146	516.3	22.95
3	01.04.2022	08.04.2022	8.155	479.6	21.32

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For CIVIL-SHINE ENGINEERING CONSULTANTS

Prakash

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 09.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Cross Road-4 from Cross Road-3 toVijaya Jyothi English School Opposite Road

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

AE-1
AE-2
A.E.E

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.04.2022	09.04.2022	8.169	515.2	22.90
2	02.04.2022	09.04.2022	8.176	526.3	23.39
3	02.04.2022	09.04.2022	8.152	499.6	22.20

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CIVIL-SHINE ENGINEERING CONSULTANTS

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 30.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Cross Road-4 from Cross Road-3 toVijaya Jyothi English School Opposite Road

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 28th day

Sl.No. AC1 AC-2 A.E.E	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.04.2022	30.04.2022	8.184	718.2	31.92
2	02.04.2022	30.04.2022	8.169	735.6	32.69
3	02.04.2022	30.04.2022	8.154	708.9	31.51

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Kurlappa Garden

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.04.2022	09.04.2022	8.198	508.2	22.59
2	02.04.2022	09.04.2022	8.165	516.2	22.94
3	02.04.2022	09.04.2022	8.154	488.6	21.72

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 09.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : Kurlappa Garden

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

AC-1 AC-2 A.E.E

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	02.04.2022	09.04.2022	8.198	515.2	22.90
2	02.04.2022	09.04.2022	8.156	526.3	23.39
3	02.04.2022	09.04.2022	8.138	501.2	22.28

Note:

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For CIVIL-SHINE ENGINEERING CONSULTANTS

Authorsied Signatory

31, 4th Cross Behind Sahana School, Veerabhadreshwara Nagar, Herohalli, Vishwaneedam Post, Bengaluru - 560091. Email : civilshine.engg@gmail.com
Ph : 8123256061, GSTIN : 29KFVPS5132D1ZR

CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 07.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : N Sitharam Circle Road

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

AE-1
AE-2
A.E.E

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.03.2022	07.03.2022	8.174	479.6	21.32
2	31.03.2022	07.03.2022	8.156	508.2	22.59
3	31.03.2022	07.03.2022	8.138	515.9	22.93

Note:

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 07.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Sample ID : N Sitharam Circle Road

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{30}

Compressive Strength as on : 7th day

AE-1
AE-2
A.E.E

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.03.2022	07.03.2022	8.174	479.6	21.32
2	31.03.2022	07.03.2022	8.156	508.2	22.59
3	31.03.2022	07.03.2022	8.138	515.9	22.93

Note:

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CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Date: 30.03.2022

Job No.: CSEC/BBMP/KLNR/QC/2021-22

KERB STONE (CORE) TEST REPORT

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of Work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

No.of Sample Tested : 03

Date of Testing : 30.03.2022

Technical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	AB-1 AB-2 50.00	72.00	0.329	2327.20	1.44	0.940	24.90	12.68	13.70	12.87	16.08
2	A.E 50.00	74.00	0.343	2360.65	1.48	0.944	25.30	12.89	13.92	13.13	16.42
3	50.00	76.00	0.357	2392.35	1.52	0.948	26.20	13.34	14.41	13.66	17.08

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CIVIL-SHINE ENGINEERING CONSULTANTS

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(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22

Date: 11.04.2022

PRECAST SLAB 250mm Thick(CORE) TEST REPORT

Client	:	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Contractor	:	**Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of Work	:	Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	11.04.2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	90.00	113.00	1.671	2324.47	1.26	0.920	84.60	13.30	14.36	13.21	16.51
2	90.00	115.00	1.738	2375.62	1.28	0.922	85.20	13.39	14.46	13.34	16.67
3	90.00	117.00	1.785	2398.16	1.30	0.924	86.30	13.57	14.65	13.54	16.93

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Authorised Signatory

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Bengaluru - 560091. Email : civilshine.engg@gmail.com
Ph : 8123256061, GSTIN : 29KFVPS5132D1ZR

CIVIL-SHINE ENGINEERING CONSULTANTS

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(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 07.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Location : Anganawadi Building

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

AE-1
AE-2
A.E.E

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.03.2022	07.04.2022	8.169	332.3	14.77
2	31.03.2022	07.04.2022	8.184	346.5	15.40
3	31.03.2022	07.04.2022	8.146	355.8	15.81

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AE

For CIVIL-SHINE ENGINEERING CONSULTANTS

Authorsied Signatory

31, 4th Cross Behind Sahana School, Veerabhadreshwara Nagar, Herohalli, Vishwaneedam Post, Bengaluru - 560091. Email : civilshine.engg@gmail.com
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CIVIL-SHINE ENGINEERING CONSULTANTS

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 28.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Location : APTS Primises

Sample ID : Cement Concrete Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No. AE-1 AE-2 A.E.E	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.03.2022	28.03.2022	8.169	356.6	15.85
2	21.03.2022	28.03.2022	8.146	335.8	14.92
3	21.03.2022	28.03.2022	8.152	349.2	15.52

Note:

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 28.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construcuon of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Location : APTS Primises

Sample ID : Cement Concrete Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.03.2022	28.03.2022	8.136	336.3	14.95
2	21.03.2022	28.03.2022	8.152	346.5	15.40
3	21.03.2022	28.03.2022	8.149	352.8	15.68

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 30.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Location : APTS Primises

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.03.2022	30.03.2022	8.184	356.3	15.84
2	23.03.2022	30.03.2022	8.199	339.6	15.09
3	23.03.2022	30.03.2022	8.152	326.4	14.51

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 30.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Location : APTS Primises

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.03.2022	30.03.2022	8.168	362.4	16.11
2	23.03.2022	30.03.2022	8.179	346.8	15.41
3	23.03.2022	30.03.2022	8.182	352.8	15.68

Note:

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CIVIL-SHINE ENGINEERING CONSULTANTS

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 01.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Location : Kurlappa Garden

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.03.2022	01.04.2022	8.168	358.9	15.95
2	25.03.2022	01.04.2022	8.184	349.5	15.53
3	25.03.2022	01.04.2022	8.179	326.4	14.51

Note:

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CIVIL-SHINE ENGINEERING CONSULTANTS

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 23.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Location : Kurlappa Garden

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	AE-1 / AE-2 Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.03.2022	23.04.2022	8.198	505.2	22.45
2	25.03.2022	23.04.2022	8.176	484.6	21.54
3	25.03.2022	23.04.2022	8.152	499.6	22.20

A.E.E

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CIVIL-SHINE ENGINEERING CONSULTANTS

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(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 25.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Location : Kurlappa Garden

Sample ID : Cement Concrete Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	AE1 AE2 A.E.E Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.03.2022	25.04.2022	8.198	515.2	22.90
2	28.03.2022	25.04.2022	8.170	509.3	22.64
3	28.03.2022	25.04.2022	8.162	489.6	21.76

Note:

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CIVIL-SHINE ENGINEERING CONSULTANTS

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 25.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Location : Kurlappa Garden

Sample ID : Cement Concrete Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

AC-1
AC-2
A.E.E

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.03.2022	25.04.2022	8.196	508.2	22.59
2	28.03.2022	25.04.2022	8.165	516.3	22.95
3	28.03.2022	25.04.2022	8.148	489.2	21.74

Note:

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AE

For CIVIL-SHINE ENGINEERING CONSULTANTS

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(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 29.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Location : N.Sitharam Circle Road

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.03.2022	29.03.2022	8.169	336.3	14.95
2	22.03.2022	29.03.2022	8.172	346.5	15.40
3	22.03.2022	29.03.2022	8.154	352.8	15.68

AE-1 AE-2 A.E.E

Note:

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

AE

For CIVIL-SHINE ENGINEERING CONSULTANTS

Authorised Signatory

31, 4th Cross Behind Sahana School, Veerabhadreshwara Nagar, Herohalli, Vishwaneedam Post, Bengaluru - 560091. Email : civilshine.engg@gmail.com
Ph : 8123256061, GSTIN : 29KFVPS5132D1ZR

CIVIL-SHINE ENGINEERING CONSULTANTS

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 19.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Location : N.Sitharam Circle Road

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.03.2022	19.04.2022	8.165	502.6	22.34
2	22.03.2022	19.04.2022	8.128	516.8	22.97
3	22.03.2022	19.04.2022	8.149	492.7	21.90

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 31.03.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Location : N.Sitharam Circle Road

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.03.2022	31.03.2022	8.136	336.3	14.95
2	24.03.2022	31.03.2022	8.165	345.9	15.37
3	24.03.2022	31.03.2022	8.146	368.2	16.36

A.E.E

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Ph : 8123256061, GSTIN : 29KFVPS5132D1ZR

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 22.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Location : Gnanabharathi School Back Road

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	AE-1 AE-2 AEE Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.03.2022	22.04.2022	8.184	515.2	22.90
2	25.03.2022	22.04.2022	8.169	509.3	22.64
3	25.03.2022	22.04.2022	8.146	488.9	21.73

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Ph : 8123256061, GSTIN : 29KFVPS5132D1ZR

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 25.04.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of the work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Location : Gnanabharathi School Back Road

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting AE-1 AE-2 A.E.E	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.03.2022	25.04.2022	8.166	505.2	22.45
2	28.03.2022	25.04.2022	8.172	516.3	22.95
3	28.03.2022	25.04.2022	8.158	485.9	21.60

Note:

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Authorised Signatory

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Ph : 8123256061, GSTIN : 29KFVPS5132D1ZR

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Job No.: CACE /SWM/NPRI/QC/2021-22 Date : 04.04.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	**Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of Work	Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	04.04.2022

Sl no AE-1	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
AE-2 1	Flakiness Index %	10.90	11.20	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	12.60	12.80	
	Combined Flakiness & Elongation index	23.50	24.00	

A.E.E

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31, 4th Cross Behind Sahana School, Veerabhadreshwara Nagar, Herohalli, Vishwaneedam Post, Bengaluru - 560091. Email : civilshine.engg@gmail.com

Ph : 8123256061, GSTIN : 29KFVPS5132D1ZR

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JobNo: CSEC/BBMP/KLNR/QC/2021-22 Date : 11.04.2022

TEST RESULTS OF AGGREGATE IMPACT VALUE

Client : **Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.

Agency : **Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.

Name of work : Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.

Source / Location : Hot Mix Plant, Bangalore

BIS Code : IS 2386 Part (4):1963

Type of Mix : Dense Graded Bituminous Macadam

Date of test : 11.04.2022

AB-1

AB-2

A.E.E

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W1 g	381	383	
2	Weight of agregate passing 2.36 mm sieve after the test = W2 g	84	87	
3	Weight of aggregate retained 2.36 mm sieve after the test = W3 g	297	297	
5	Aggregate Impact value = percent fines 100* (W2/W1) percent	22.05	22.58	22.32

Comments:

→ Maximum allowable Aggregate Impact value for Dense Graded Bituminous Macadam is 27% (Table 500-8 of MORTH specification)

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For CIVIL-SHINE ENGINEERING CONSULTANTS

Authorsied Signatory

31, 4th Cross Behind Sahana School, Veerabhadreshwara Nagar, Herohalli, Vishwaneedam Post, Bengaluru - 560091. Email : civilshine.engg@gmail.com

Ph : 8123256061, GSTIN : 29KFVPS5132D1ZR

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Job No: CSEC/BBMP/KLNR/QC/2021-22 Date: 11.04.2022

TEST REPORT ON PAVING BITUMEN

Client	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	**Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of work	Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
BIS Code	IS 73:2013,IS 1203:1978, IS 1208:1978, IS 1205:1978, IS1448(P-69):1969
Date of Testing	11.04.2022
Type of Mix	**Dense Graded Bituminous Macadam , VG 30**
Source of Location	**Hot Mix Plant**

AE-1

The results of the tests conducted on the bitumen sample using for Dense Graded Bituminous Macadam AE-2

A.E.E

Sl.No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 0C, 100gms, 5sec, 1/10 mm	49	Min 45
2	Softening point, 0C	52	Min 47
3	Ductility at 250C, cm	99	Min40
4	Flash Point, 0C	252	Min 220

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AE

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 13.04.2022

Specific Gravity And Water Absorption Test

Client	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	**Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the Work	Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
BIS Code	IS 2386(Part 3):1963
Type of Mix	Dense Graded Bituminous Macadam
Date of Testing	11.04.2022 to 13.04.2022

Sl. No.	Details (AE-1 AE-2 A.E.E)	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2021	2023	2025	
2	Weight of basket suspended in water	W_2 g	754	754	754	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1267	1269	1271	
4	Weight of saturated surface dry aggregate in air	W_3 g	2016	2018	2020	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	749	749	749	
6	Weight of oven dried aggregate	W_4 g	2009	2010	2011	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.682	2.684	2.685	2.684
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.708	2.713	2.718	2.713
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.35%	0.40%	0.45%	0.40%

Comments:

→ Maximum allowable Aggregate Water absorption value for Dense Graded Bituminous Macadam is 2.0%(As per MORTH table 500.8)

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date : 12.04.2022

Aggregate Gradation Test

IS : 2386 Part I

Client	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	**Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the Work	Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
BIS Code	IS 2386(Part 1):1963
Sample I / D	Hot Mix Plant, Bangalore
Type of Mix	Bituminous Concrete
Date of Testing	12.04.2022

Total Weight of Sample: **5000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.17	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	424	8.48	8.48	91.52	90 - 100	
9.5	480	9.60	18.08	81.92	70 - 88	
4.75	632	12.64	30.72	69.28	53 - 71	
2.36	682	13.64	44.36	55.64	42 - 58	
1.18	520	10.40	54.76	45.24	34 - 48	
0.600	546	10.92	65.68	34.32	26 - 38	
0.300	489	9.78	75.46	24.54	18 - 28	
0.150	336	6.72	82.18	17.82	12 - 20	
0.075	482	9.64	91.82	8.18	4 - 10	

Total Weight of Sample: **5000** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	Requirement as per MORTH table 500.17	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	419	8.38	8.38	91.62	90 - 100	
9.5	543	10.86	19.24	80.76	70 - 88	
4.75	682	13.64	32.88	67.12	53 - 71	
2.36	530	10.60	43.48	56.52	42 - 58	
1.18	556	11.12	54.60	45.40	34 - 48	
0.600	542	10.84	65.44	34.56	26 - 38	
0.300	632	12.64	78.08	21.92	18 - 28	
0.150	198	3.96	82.04	17.96	12 - 20	
0.075	482	9.64	91.68	8.32	4 - 10	

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Authorsied Signatory

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date: 12.04.2021

TEST REPORT

Client	:	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the work	:	Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
IS Code	:	IS 73:2013, IS 1203:1978(RA 2008), IS 1205:1978(RA 2009), IS 1208:1978(RA 2009), IS 1209:1978(RA 2009)
Source of location	:	Hot mix Plant, Bangalore, VG 30
Date of testing	:	12.04.2021

AE-1 AE-2

The results of the tests conducted on the bitumen sample using for Bituminous Concrete

A.E.E

Sl. No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 °C, 1/10 mm	52	Min 45
2	Softening point, °C	50	Min. 47
3	Ductility at 27°C, cm	> 100	Min. 40
4	Flash Point, °C	272	Min. 220

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Ph : 8123256061, GSTIN : 29KFVPS5132D1ZR

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Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date : 14.04.2022

Specific Gravity And Water Absorption Test

Client	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	**Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the Work	Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
BIS Code	IS 2386(Part 3):1963
Type of Mix	Bituminous Concrete
Date of Testing	12.04.2022 to 14.04.2022

AE-1

AE-2

AEE

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2020	2022	2024	
2	Weight of basket suspended in water	W_2 g	755	755	755	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1265	1267	1269	
4	Weight of saturated surface dry aggregate in air	W_3 g	2016	2018	2020	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	751	751	751	
6	Weight of oven dried aggregate	W_4 g	2009	2010	2011	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.675	2.676	2.678	2.676
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.700	2.705	2.710	2.705
9	Water Absorption	$((W_3-W_4)*100)/W_4$	0.35%	0.40%	0.45%	0.40%

Comments:

→ Maximum allowable Aggregate Water absorption value for Bituminous Concrete is 2.0%(MORTH table 500.16)

Note:

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For CIVIL-SHINE ENGINEERING CONSULTANTS

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31, 4th Cross Behind Sahana School, Veerabhadreshwara Nagar, Herohalli, Vishwaneedam Post, Bengaluru - 560091. Email : civilshine.engg@gmail.com

Ph : 8123256061, GSTIN : 29KFVPS5132D1ZR

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Job No: CSEC/BBMP/KLNR/QC/2021-22 Date: 19.04.2022

TEST REPORT ON STABILITY OF MIX

Client	:	**Assistant Executive Engineer,** Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	**Sri. K. Lakshmi Narayana Reddy,** Contractor, Bangalore.
Name of the Work	:	Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore.
Source of location	:	Hot mix Plant, Bangalore
Type of Mix	:	Bituminous Concrete
Date of Testing	:	19.04.2022

AE-1

The results of the tests conducted on the Bituminous Concrete mix sample are as follows:

AE-2

A.E.E

Sl. No	Description	Test Result 1	Test Result 2	Requirement as per MORTH (Table 500-19)
1	Marshal Stability, Kn	10.12	9.84	9 Kn (min)
2	Marshal flow, mm	2.66	3.19	2 – 4
3	Percent air voids in Mineral Aggregate	13.35	14.52	13 – 15
4	Voids in Compacted Mix	3.39	4.52	3 – 6
5	Percent Voids filled with Bitumen	67.26	68.92	65 - 75
6	Density, g/cc	2.25	2.26	--

Note:

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AE

For CIVIL-SHINE ENGINEERING CONSULTANTS

Authorsied Signatory

31, 4th Cross Behind Sahana School, Veerabhadreshwara Nagar, Herohalli, Vishwaneedam Post, Bengaluru - 560091. Email : civilshine.engg@gmail.com

Ph : 8123256061, GSTIN : 29KFVPS5132D1ZR

CIVIL-SHINE ENGINEERING CONSULTANTS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)

(AN ISO CERTIFIED COMPANY)

Job No.: CSEC/BBMP/KLNR/QC/2021-22 Date : 19.04.2022

BITUMEN CONTENT AND GRADATION DETERMINATION OF BITUMINOUS CONCRETE

AASHTO T 164 & AASHTO T 30

CLIENT	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore
AGENCY	Sri. K. Lakshmi Narayana Reddy, Contractor, Bangalore
NAME OF THE WORK	Improvements of Roads, Development of Parks and Construction of Buildings in Ward No 01, 02, 03 & 04 of Yelahanka Division Under 2021-22 District Minister Grants (Package-15), BBMP, Bangalore
LOCATION	APTS Primises
DATE OF TESTING	19.04.2022

BITUMEN CONTENT DETERMINATION

Description	Sample 1	Sample 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	473	472.5
3. Weight of Asphalt and Mineral matter Extracted, g	27	27.5
4. Weight of Mineral Matter, g	-	-
5. Weight of Ash, g	-	-
6. Weight of Bitumen Extracted, g (corrected)	27	27.5
7. Bitumen content in %	5.40	5.50
8. Average	5.45	

AE-1
AE-2
A.E.E

GRADATION AFTER EXTRACTION

SIEVE SIZE mm	Test 1 Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Requirement as per MORTH table 500.17
19	0	0	0	100	100
13.2	14.2	14.2	3.0	97.0	90 - 100
9.5	65.8	80	16.9	83.1	70 - 88
4.75	92.6	172.6	36.5	63.5	53 - 71
2.36	42.3	214.9	45.4	54.6	42 - 58
1.18	36.8	251.7	53.2	46.8	34 - 48
0.600	54.2	305.9	64.7	35.3	26 - 38
0.300	40.9	346.8	73.3	26.7	18 - 28
0.150	35.6	382.4	80.8	19.2	12 - 20
0.075	49.6	432	91.3	8.7	4 - 10

SIEVE SIZE mm	Test 2 Weight Retained, gm	Cummulative Weight Retained	%Cummulative Retained	% Passing	Requirement as per MORTH table 500.17
19	0	0	0	100	100
13.2	15.5	15.5	3.3	96.7	90 - 100
9.5	62.8	78.3	16.6	83.4	70 - 88
4.75	93.6	171.9	36.4	63.6	53 - 71
2.36	45.2	217.1	45.9	54.1	42 - 58
1.18	33.6	250.7	53.1	46.9	34 - 48
0.600	54.2	304.9	64.5	35.5	26 - 38
0.300	43.5	348.4	73.7	26.3	18 - 28
0.150	38.5	386.9	81.9	18.1	12 - 20
0.075	59.3	446.2	94.4	5.6	4 - 10

For CIVIL-SHINE ENGINEERING CONSULTANTS

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Ph : 8123256061, GSTIN : 29KFVPS5132D1ZR